MPE Calculation

KDB 447498 - 4.3.1 b)

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz

KDB 447498 - Appendix B

Frequency (MHz)	Distance (mm)
	60
1900	209
2450	196
3600	179

Model Name : **SP145**

FCC ID : **2A5D3-SP145** Separation distance : **61.0 mm**

Modulation	Frequency (MHz)	Min. Test separation distance	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance		SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≥ 50 mm	Limit	Result
		(mm)	(dBm)	(dB)	(dBm)	(mW)			
GFSK	2402	60.00	16.40	± 1.00	17.40	54.95	101.4195	197.13	**PASS**
	2441		16.26		17.26	53.21	101.3856	196.21	**PASS**
	2480		16.05		17.05	50.70	101.3307	195.56	**PASS**
π/4DQPSK	2402	60.00	6.59	± 1.00	7.59	5.74	100.1483	197.13	**PASS**
	2441		7.08		8.08	6.43	100.1674	196.21	**PASS**
	2480		7.68		8.68	7.38	100.1937	195.56	**PASS**
8DPSK	2402	60.00	7.45	± 1.00	8.45	7.00	100.1808	197.13	**PASS**
	2441		7.99		8.99	7.93	100.2064	196.21	**PASS**
	2480		8.65		9.65	9.23	100.2421	195.56	**PASS**
BT LE	2402	60.00	3.00	± 1.00	4.00	2.51	100.0649	197.13	**PASS**
	2442		3.63		4.63	2.90	100.0756	196.19	**PASS**
	2480		4.24		5.24	3.34	100.0877	195.56	**PASS**